



DECLARATION OF PERFORMANCE

NO. 13/4/14509/BALEXTHERM MW-R (2020)

1 Unique identification code of the product-type	Sandwich panels with mineral wool core in double-sided metal cladding BALEXTHERM MW-R
2 Type, batch or serial number or any other element allowing identification of the product	Information identifying batches of the product – on the label of each package of the product Thickness of the product [mm]: 100,120,150,160 Thermal insulation [kg/m ³]: MW density of 110 -10/+ 15% Cladding: Steel 0.5-0.7 mm external; 0.5/0.7 mm internal Coating: SP, HDP, PVDF, PVC(P), PVC(F), PUR Steel grade: S250-280GD, 1.4301 Panel weight [kg/m ²]: 20.3(100); 22.4(120); 25.6(150); 26.6(160) Cladding profile: external T, internal L,G
3 Intended use/es:	Sandwich panels with mineral wool core in double-sided metal cladding as roof covers and roofing
4 Manufacturer	BALEX METAL Sp. z o.o. ul. Wejherowska 12C, 84-239 Bolszewo, Poland
5 System for assessment and verification of functional properties stability	System 3
6 Notified body/ies:	Instytut Techniki Budowlanej (no. 1488)



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7 Declared performances

Essential characteristics	Performance	Harmonised standard
Thermal transmittance [W/m ² K]	0.38(100); 0.32(120); 0.26(150); 0.24(160);	PN-EN 14509:2013
Thermal conductivity λ_D [W/mK]	0.040	
Tensile strength [MPa]	0.1	
Shear strength f_{cv} [MPa]	0.09	
Shear modulus G_c [MPa]	7.0(100); 4.5(120,150,160)	
Compressive strength f_{cc} [MPa]	0.11	
Wrinkling strength in span; external cladding [MPa]	280	
Wrinkling strength in span; external cladding at increased temp. [MPa]	280	
Wrinkling strength over support; external cladding [MPa]	280	
Wrinkling strength over support; external cladding at increased temp. [MPa]	280	
Wrinkling strength in span; internal cladding [MPa]	69(100,120,150); 54(160)	
Wrinkling strength over support; internal cladding [MPa]	69(100,120,150); 54(160)	
Creep coefficient	$\Psi_{1000}(0.8)$; $\Psi_{2000}(1.05)$;	
Resistance to concentrated load applied	No damage to the cladding and the core. The possibility of walking on the BTH MW-R roof panels is permissible.	
Fire resistance	REI 90	
Roof resistance to fire from the outside	$B_{roof}(t_1, t_2, t_3)$	
Reaction-to-fire	NPD	
Water permeability	Class A	
Air permeability [m ³ /h*m ²]	Impermeable	
Water vapour permeability	Impermeable	
Airborne sound insulation [dB]	$R_w \geq 33$, $R_{A1} \geq 31$, $R_{A2} \geq 30$	
Durability	PASS DUR2	

This declaration of performance is issued under the sole responsibility of the manufacturer, as the performance of the product identified above is in conformity with the set of declared performances. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed in the name of the manufacturer by:
 Certification manager



BALEXMETAL Sp. z o.o.
 84-239 Bolszewo, ul. Wejherowska 12C
 tel. 58 778-44-44, fax 58 778-44-55
 NIP 588-11-30-299
 P-191112216



Bolszewo, 10 November 2020

dr inż. Adam Wawrzynowicz